

Title (en)

SENSITIVE SCREEN, CONTROL CIRCUIT THEREOF, CONTROL METHOD THEREFOR, AND SENSITIVE SCREEN APPARATUS

Title (de)

EMPFINDLICHER BILDSCHIRM, STEUERSCHALTUNG DAFÜR, STEUERUNGSVERFAHREN DAFÜR UND EMPFINDLICHE BILDSCHIRMVORRICHTUNG

Title (fr)

ÉCRAN TACTILE, SON CIRCUIT DE COMMANDE, SON PROCÉDÉ DE COMMANDE, ET APPAREIL À ÉCRAN TACTILE

Publication

EP 3142185 B1 20230726 (EN)

Application

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Priority

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Abstract (en)

[origin: EP3142185A1] The present invention discloses a sensing screen, a control circuit and control method thereof, and a sensing screen apparatus, and pertains to the field of wireless communications. The sensing screen includes a display screen, a first transparent medium layer, a transparent connection layer, and an antenna layer. The antenna layer includes multiple antenna units, and the antenna units include at least one first antenna unit and multiple second antenna units. The first antenna unit is configured to transmit a sensing signal, the second antenna units are configured to receive reflected signals of the sensing signal, and the reflected signals are generated by a touch object by reflecting the sensing signal. Alternatively, the first antenna unit and the second antenna units are configured to simultaneously transmit or receive a communication signal. The multiple second antenna units are interspersed with the first antenna unit. According to the present invention, the antenna layer is arranged right above the display screen, so that a touch area of the sensing screen is fully utilized while screen display is not affected, so as to substantially increase an antenna size and increase an antenna gain. Further, a location corresponding to the touch object is determined according to the reflected signals, so as to implement a sensing function.

IPC 8 full level

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CPC (source: EP KR RU US)

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Citation (examination)

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